



## The primary research on the invisible water resources

J. YAN (1), Y. Liu (1), N. Q. Jiang (2), H. C. Li (1), D. P. Sun (1)

(1) North China University of Water Conservancy and Electric Power, 36 Beihuan Road, Zhengzhou, Henan, 450011, China

(2) Yellow River Institute of Hydraulic Research, E-mail: nqjiang@yrihr.com.cn, 45 Shunhe Road, Zhengzhou, 4500031, China

The concept of the invisible water resources has been put forward, so has its effect on the ecosystem, the influential factors and future research aspect, etc. The water resources system is made up of many elements which are interrelated with each others and has certain functions. These elements can be divided as the invisible water resources and the visible water resources. The invisible water resources include the evaporation and dissipation water volume, the assimilation water volume and dissimilation water volume, etc. The invisible water resources hold the majority portion of the whole water resources but haven't drawn sufficient attention. The invisible water resources should be brought into the water resources evaluation for the integrated management to maintain the stability of the system of water resources and establish the harmonious relation between human and water.

**Key words:** the invisible water resources; the visible water resources; the evaporation and dissipation water volume; the assimilation water volume and dissimilation water volume

**Acknowledgments:** Project supported by the National Natural Science Foundation of China (Grant No.: 50509008)

**Biography:** Jun YAN (1971- ), Male, Ph. D.